

3.15 Site AR-15

Owner: Breeder Farm #2; Long -94.379066 Lat 36.224983



- Available Data and Analysis:** No soil, groundwater, or edge-of-field samples have been collected on this site. The nearest downstream sediment sample (268 mg/kg P) is more than two miles away. The co-located surface water samples (P = 0.122 mg/L and 0.235 mg/L) were collected downgradient from the confluence between the receiving stream and drainage from the AR-15 area. There are other potential anthropogenic P sources between AR-15 and these surface water samples. See Appendix B. The next downstream surface water sample (0.032 mg/L P) was collected >10 miles downstream.
- Site Effect on the Watershed:** Based on the available data and analysis, site AR-15 has not affected receiving waters or sediments of the IRW.

3.16 Site AR-16

Owner: Breeder Farm #1; Long -94.381050 Lat 36.221966



- Available Data and Analysis:** No soil, groundwater, or edge-of-field samples have been collected on this site. The nearest downstream sediment sample (268 mg/kg P) is more than two miles away. The co-located surface water samples (P = 0.122 mg/L and 0.0235 mg/L) were collected downgradient from the confluence between the receiving stream and drainage from the AR-16 area. There are other potential anthropogenic P sources between AR-16 and these surface water samples. See Appendix B. The next downstream surface water sample (0.032 mg/L P) was collected >10 miles downstream.
- Site Effect on the Watershed:** Based on the available data and analysis, site AR-16 has not affected receiving waters or sediments of the IRW.

3.17 Site AR-17

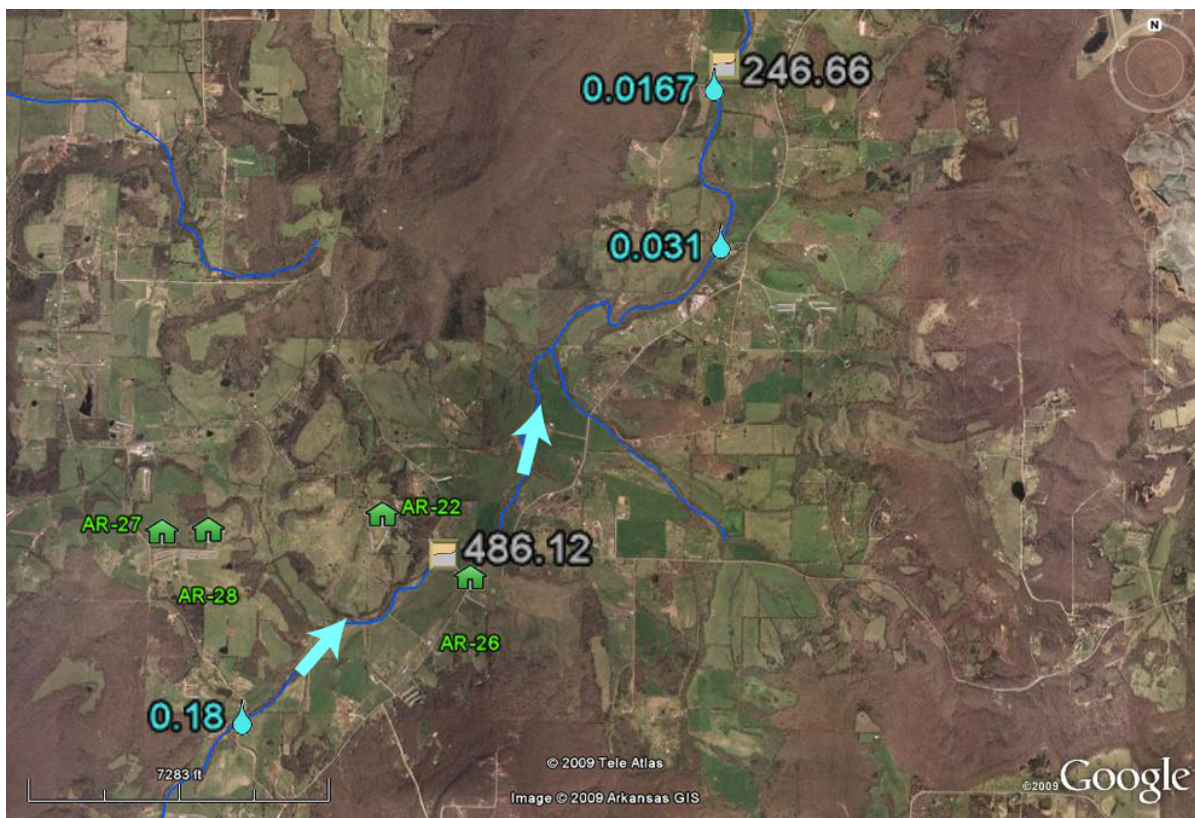
Owner: E. Brigance; Long -94.402350 Lat 36.268233



- **Available Data and Analysis:** Samples in the vicinity of **Springtown** (2.3 miles from AR-17) have higher P, probably due to urban runoff. There are other potential anthropogenic sources of P between AR-17 and the nearest surface water sample. See Appendix B.
- **Site Effect on the Watershed:** Based on the available data and analysis, there is no evidence that site AR-17 is the source of elevated P in receiving surface waters of the IRW.

3.22 Site AR-22

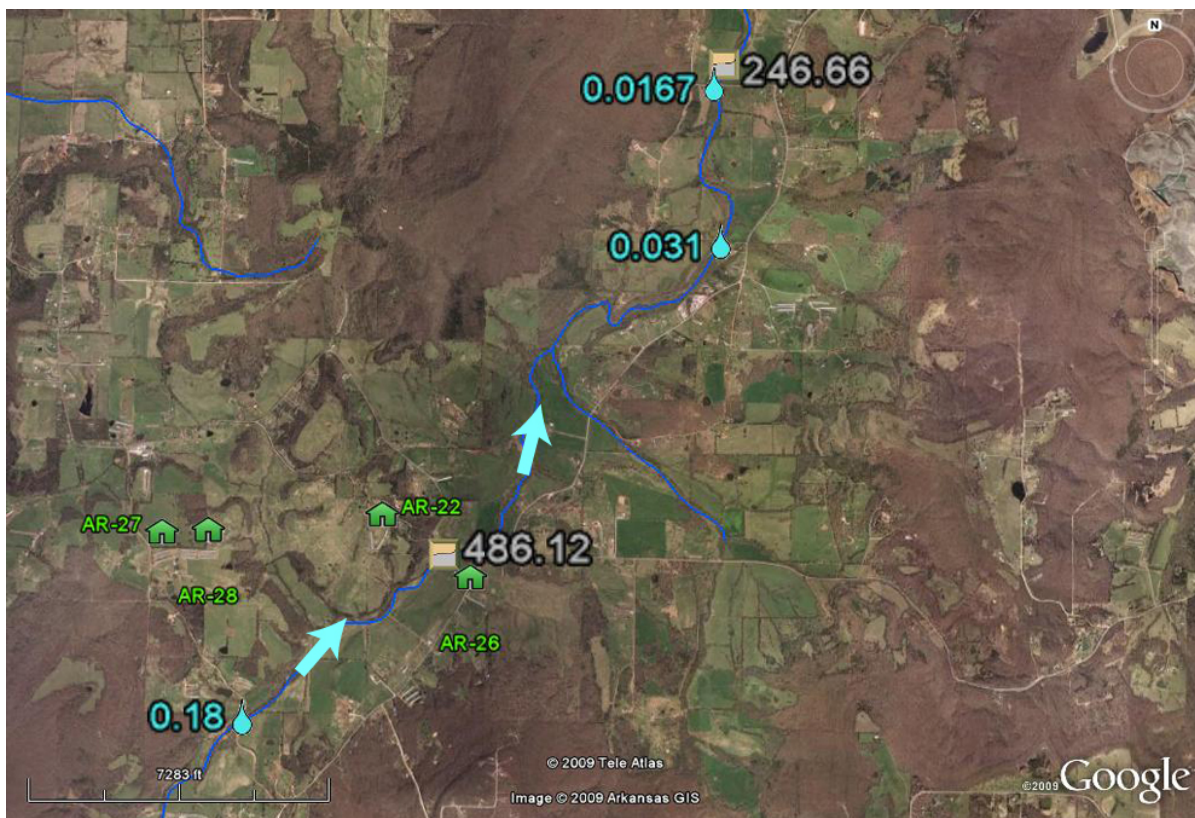
Owner: R. Aday; Long -94.278300 Lat 35.921400



- Available Data and Analysis:** No soil or groundwater samples have been collected within two miles of the site, and no edge-of-field samples or surface water samples adjacent to this site have been collected. A surface water sample (0.18 mg/L P), about one mile west of AR-22, is from upstream of the site but in the vicinity of other potential anthropogenic sources (see inset, above). See Appendix B. A sediment sample (486 mg/kg P) collected one quarter mile north of the site, in the potentially affected range (460 to 600 mg/kg P), may reflect the upstream affected surface water. However, surface water (0.031 mg/L and 0.017 mg/L P) and sediment (246 mg/kg P) samples 2.6 miles downstream from this sample location show no apparent effects from upstream.
- Site Effect on the Watershed:** Based on the available data and analysis, there is no evidence that site AR-22 has affected receiving waters or sediments of the IRW.

3.26 Site AR-26

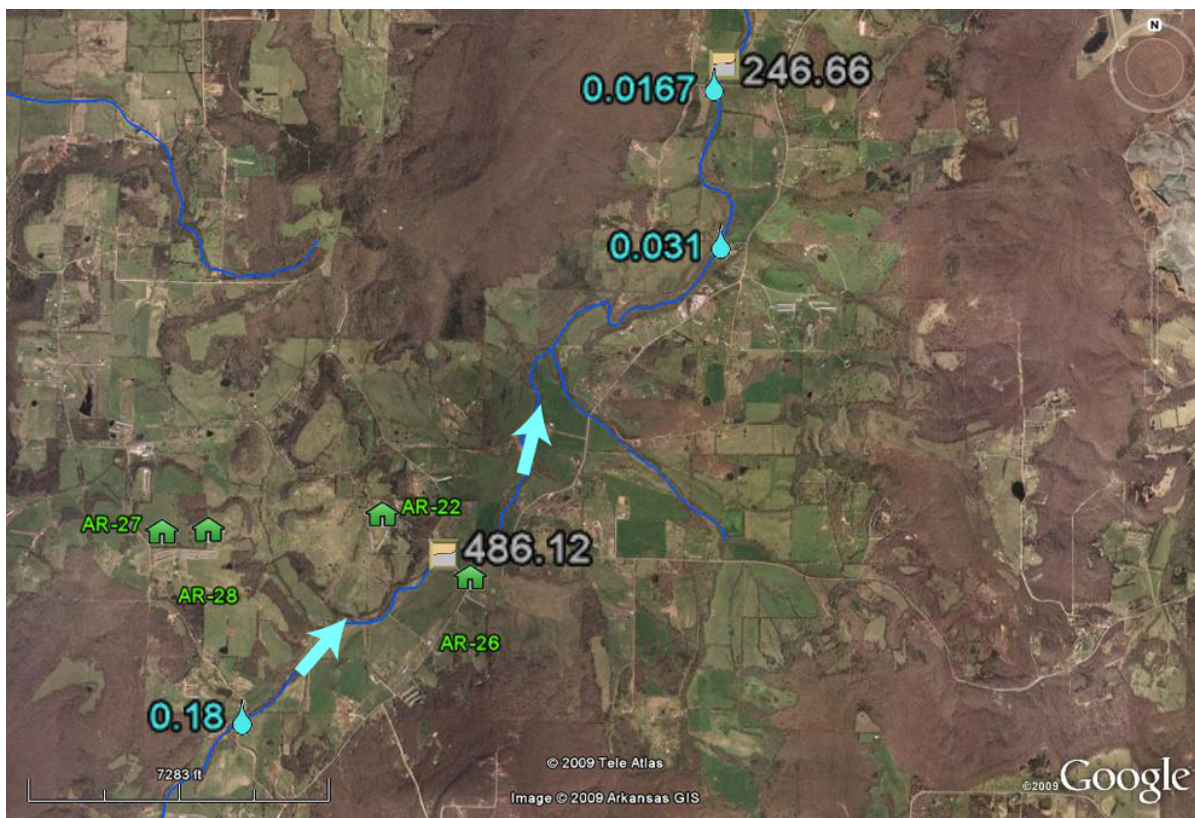
Owner: N. Findahl; Long -94.271016 Lat 35.917150



- Available Data and Analysis:** There have been no soil or groundwater samples collected within two miles of the site, and no edge-of-field samples or surface water samples adjacent to this site have been collected. A surface water sample (0.18 mg/L P) from about one mile west of AR-26 is upstream of the site but in the vicinity of other potential anthropogenic sources. A sediment sample (486 mg/kg P) collected one quarter mile north of the site, in the potentially affected range (460 to 600 mg/kg P), is located upstream and shows no potential effects from AR-26. Surface water (0.031 mg/L and 0.017 mg/L P) and sediment (246 mg/kg P) samples collected 2.6 miles downstream from this sample location show no apparent effects from upstream concentrations.
- Site Effect on the Watershed:** Based on the available data and analysis, there is no evidence that site AR-26 has affected receiving waters or sediments of the IRW.

3.27 Site AR-27

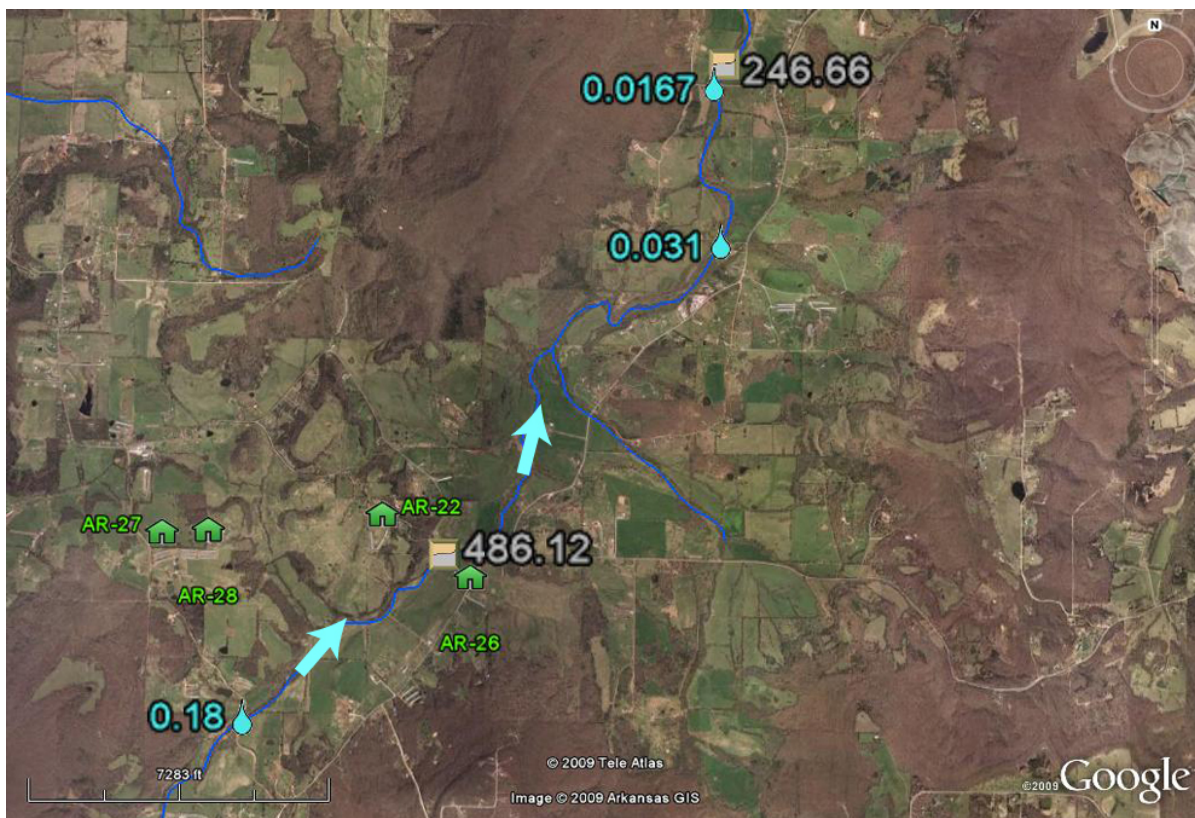
Owner: K. & D. Thomas; Long -94.296616 Lat 35.920233



- Available Data and Analysis:** There have been no soil or groundwater samples collected within two miles of the site, and no edge-of-field samples adjacent to this site have been collected. Drainage from the site is to the east and then the south. A surface water sample ~0.8 miles south of AR-27 (0.18 mg/L P) is upstream of the confluence with drainage from the site but in the vicinity of other potential anthropogenic sources. See Appendix B. A sediment sample (486 mg/kg P) collected one quarter mile north of the site in the potentially affected range (460 to 600 mg/kg P) may reflect the upstream affected surface water. However, surface water (0.031 mg/L and 0.017 mg/L P) and sediment (246 mg/kg P) samples collected 2.6 miles downstream from AR-27 show no apparent effects from upstream concentrations.
- Site Effect on the Watershed:** Based on the available data and analysis, there is no evidence that site AR-27 has affected receiving waters or sediments of the IRW.

3.28 Site AR-28

Owner: G. Horne; Long -94.292800 Lat 35.920366



- Available Data and Analysis:** There have been no soil or groundwater samples collected within two miles of the site, and no edge-of-field samples adjacent to this site have been collected. Drainage from the site is to the east and then the south. A surface water sample ~0.8 miles south of AR-28 (0.18 mg/L P) is upstream of the confluence with drainage from the site but in the vicinity of other potential anthropogenic sources. See Appendix B. A sediment sample (486 mg/kg P) collected one quarter mile north of the site in the potentially affected range (460 to 600 mg/kg P) may reflect the upstream affected surface water. However, surface water (0.031 mg/L and 0.017 mg/L P) and sediment (246 mg/kg P) samples collected 2.6 miles downstream from AR-28 show no apparent effects from upstream concentrations.
- Site Effect on the Watershed:** Based on the available data and analysis, there is no evidence that site AR-28 has affected receiving waters or sediments of the IRW.

3.30 Site AR-30

Owner: P. Biggs; Long -94.413616 Lat 35.910833



- Available Data and Analysis:** There have been no soil or groundwater samples collected within two miles of the site. Flow off of the site to the west joins the flow from north to south. On this branch there were co-located surface water and sediment samples upstream (0.63 mg/L P and 858 mg/kg P, respectively) and downstream (0.35 mg/L P and 1,092 mg/kg P, respectively). The incremental increase in sediment P is potentially the result of several agricultural facilities on the west-facing slope above the stream. **The town of Lincoln, with a POTW and urban development, is located upgradient from the upstream samples.** See Appendix B. Any drainage to the east will meet the aforementioned stream in between the two sample locations. The eastern drainage is the recipient of upstream P contributions, as represented by edge-of-field samples (9.29 and 7.066 mg/L P) upstream of AR-30.
- Site Effect on the Watershed:** Based on the available data and analysis, there is no evidence that site AR-30 is the cause of the affected waters and sediments of the IRW.